



Keral Verma Subharti College of Sciences
**Department of Mathematics and
Statistics**

VALUE ADDED COURSE
INTRODUCTION OF MATLAB
VAC-Math-107

2020-2021

	OBJECTIVE	<ul style="list-style-type: none">To familiarize the students about Introductory statistics and its Insurance Applications.
	SCHEDULE TIMING	<ul style="list-style-type: none">01-08 July 2021
	VANUE	<ul style="list-style-type: none">DEPARTMENT OF MATHEMATICS AND STATISTICS, KERAL VERMA SUBHARTI COLLEGE OF SCIENCES

Course convener
Dr. Jitendra Kumar
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Cordinator
Dr. Neha Saxena
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SYLLABUS

Name of Value Added Course: **Introduction of MATLAB**

Course Code: **VAC-Math-107**

Time: **16hrs**

The Course objectives are:

- Understanding the MATLAB environment
- Being able to do simple calculations using MATLAB
- Being able to carry out simple numerical computations and analyses using MATLAB

Unit-I MATLAB basics

The MATLAB environment , Basic computer programming , Variables and constants, operators and simple calculations ,Formulas and functions -,MATLAB toolboxes

Unit-II Matrices and vectors

Matrix and linear algebra review , Vectors and matrices in MATLAB , Matrix operations and functions in MATLAB

Unit-III Computer programming

Algorithms and structures , MATLAB scripts and functions (m-files) - Simple sequential algorithms - Control structures (if...then, loops)

MATLAB programming

Reading and writing data, file handling , Personalized functions , Toolbox structure , MATLAB graphic functions

Unit-IV Numerical simulations

-Numerical methods and simulations , Random number generation ,MMontecarlo methods

Course Out Comes

- The student should be able to: Understand the main features of the MATLAB development environment
- Use the MATLAB GUI effectively
- Design simple algorithms to solve problems
- Write simple programs in MATLAB to solve scientific and mathematical problems
- Know where to find help

Suggested bibliography MATLAB

Getting Started Guide

http://www.mathworks.com/help/pdf_doc/matlab/getstart.pdf

Useful references:

MATLAB Central (script, toolbox, blog, newsgroup) <http://www.mathworks.com/matlabcentral/> MATLAB Newsletters <http://www.mathworks.com/company/newsletters/>


Registrar
Swami Vivekanand
Subharti University
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A constituent college of
SWAMI VIVEKANAND SUBHARTI UNIVERSITY
(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)



Ref: KVSCOS/Math/2021/VAC/ 04

Session: 2020 -21

Report on Value Added Course

A one week value added course on **INTRODUCTION OF-MATLAB** was conducted in the department for UG students. The course starts on 01-07-2021 and 33 students registered themselves in the course. The sessions were handled by course co-coordinators Dr. Jitendra Kumar & Dr. Neha Saxena, for improving the computer skills of the students. The course was completed on 08-07-2021 and all the 33 students registered successfully completed the course. Students felt that the course was very much helpful and they got the basic knowledge on basic office automation.

Dr Aftab Alam

HOD
Department of Mathematics

Registrar
Swami Vivekanand
Subharti University
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17/11/2021



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Ref: KVSCOS/Math/2021/VAC/ 03

Online Mode

Name of Value Added Course: **Introduction of MATLAB**
Faculty: **Dr Jitendra Kumar and Dr Neha Saxena**

Course Code: **VAC Math 107**
Time: **16 hrs**

Duration: **01-07-2021 to 08-07-2021 (2 Hrs per Day,)**

S. No.	Enrollment no.	Name of Student	Father's Name	Remark
1.	1806000020719	AARTI	RAJESH KUMAR	
2.	1806000020721	NARESH P. SINGH	LOKESH TOMER	
3.	1806000020723	NAMAN SHARMA	RAVI BHUSHAN SHARMA	
4.	1806000020724	AVNEESH TOMAR	SUDARSHAN TOMER	
5.	1806000020725	ASHISH TOMAR	SUDARSHAN TOMER	
6.	1806000020726	CHARU KUMARI	OMBEER SINGH	
7.	1806000020727	ZEESHAN AHMAD	JALALUDDIN SHAH	
8.	1806000020728	YOGANT KR MODI	RAVINDER SINGH	
9.	1806000020729	AKSHAY YADAV	GAJENDRA SINGH	
10.	1806000020731	SURAJ GIRI	SHIV SHANKAR GIRI	
11.	1806000020732	SONALI CHAUDHARY	AJEET SINGH	
12.	1806000020733	SHIKHA TOMAR	YASH KUMAR TOMAR	
13.	1806000021920	ADITI	DHARMENDRA KUMAR	
14.	1806000021921	PRACHI NEHRA	AMARDEEP NEHRA	
15.	1806000021922	TANU	VINOD RAWAT	
16.	1806000021923	MANSI CHAUDHARY	PRAMOD KUMAR	
17.	1806000021924	RASHI VISHNOI	MANOJ KUMAR VISHNOI	
18.	1806000021925	SHUBHAM T. CLANCY	TERANS CLANCY	
19.	1806000021931	VIKAS RAI	GANDHI PRASAD RAI	
20.	1806000021122	IFFRA KHAN	MANSOOR KHAN	
21.	1806000021123	ASHUTOSH VASHIST	DEEPAK SHARMA	
22.	1806000021125	PRERNA SHISHODIA	SUKHVIR SINGH	
23.	1806000021129	AKSHIT AGGARWAL	LAIT SATISH KUMAR	





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24.	1806000021132	HRITIK SAXENA	AKHILESH SAXENA	
25.	1806000021133	PRIYANSHU SHARMA	PAWAN KR SHARMA	
26.	1806000021136	UDIT SAROHA	UPENDRA KUMAR	
27.	1806000021143	ADTIYA GUPTA	SANJAY GUPTA	
28.	1806000021145	VIKAS KUMAR	MANOJ KUMAR	
29.	1806000021146	TARUN SINGH CHAUHAN	SUNIL SINGH CHAUHAN	
30.	1806000021147	KM CHHAVI BHARTI	SHIV KUMAR	
31.	1806000022033	SHUBHAM KR JHA	DHANANJAY JHA	
32.	1806000022058	YERISHA PAURAS	UPENDRA PAURAS	
33.	1806000022435	GUNJAN TOMER	BRIJENDRA SINGH TOMER	

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Registrar
Swami Vivekanand
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